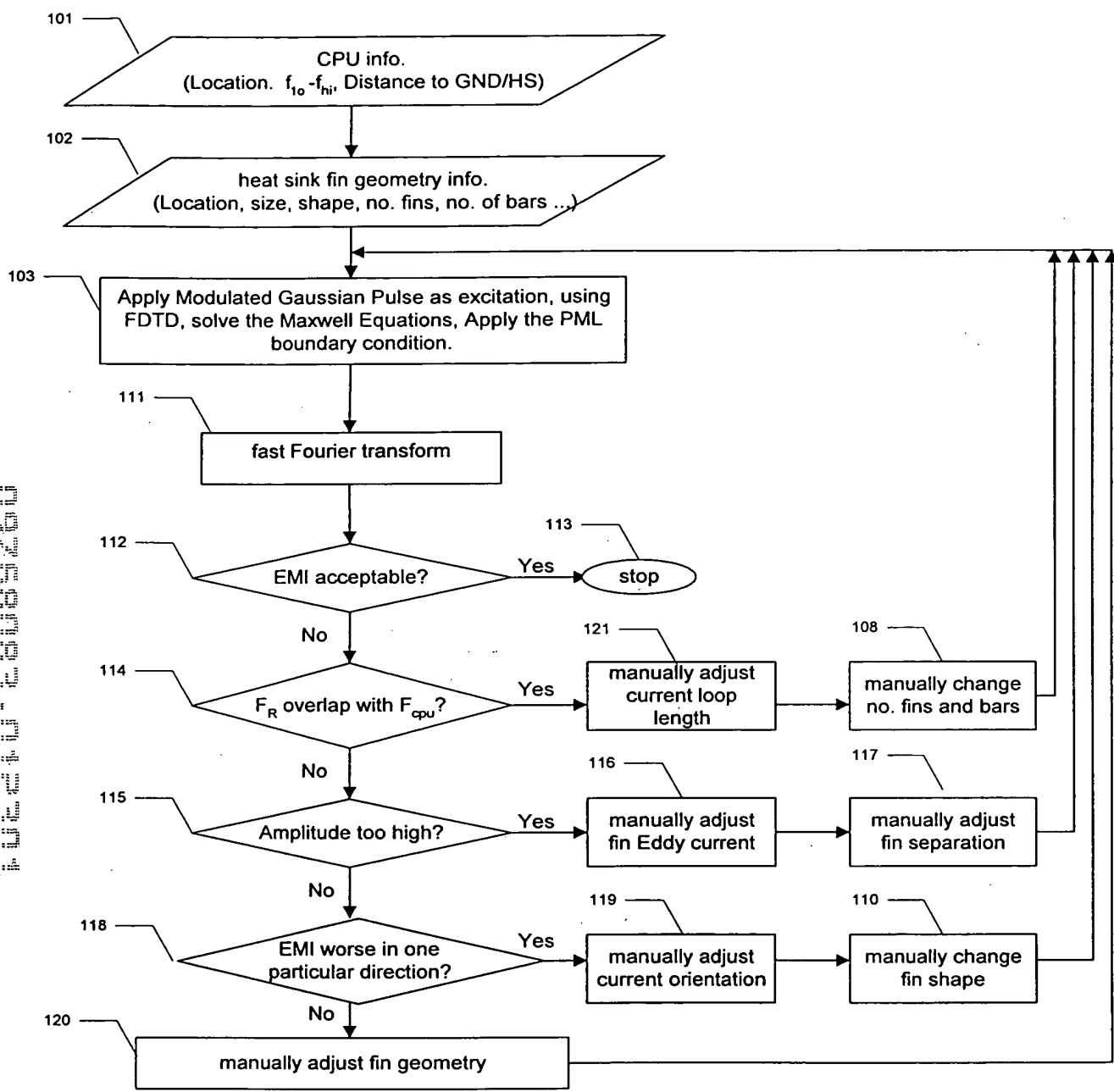


Note: HS — Heatsink
 f_{lo} - f_{hi} — frequency window range
 F_R — Resonance frequency of the heatsink
PML — Perfect Matched Layer
FDTD — Finite Difference in Time Domain
GND — Ground
FFT — Fast Fourier Transform

FIG. 1

09:00:00 00000000



Note: HS — Heatsink
 f_{10} - f_{hi} — frequency window range
 F_r — Resonance frequency of the heatsink
PML — Perfect Matched Layer
FDTD — Finite Difference in Time Domain
GND — Ground
FFT — Fast Fourier Transform

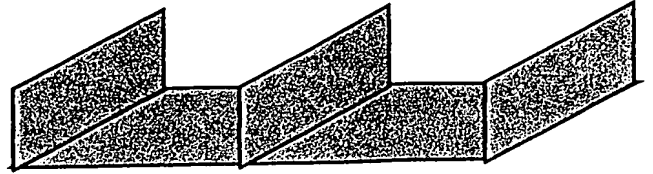
FIG. 1A

Case A



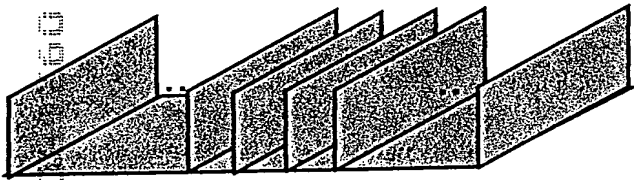
No fin, No top

Case B



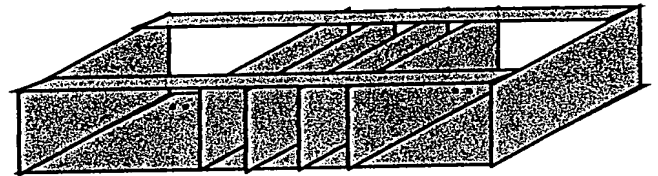
3 fins, No top

Case C



25 fins, No top

Case D



25 fins, 2 top bars

Fig. 2

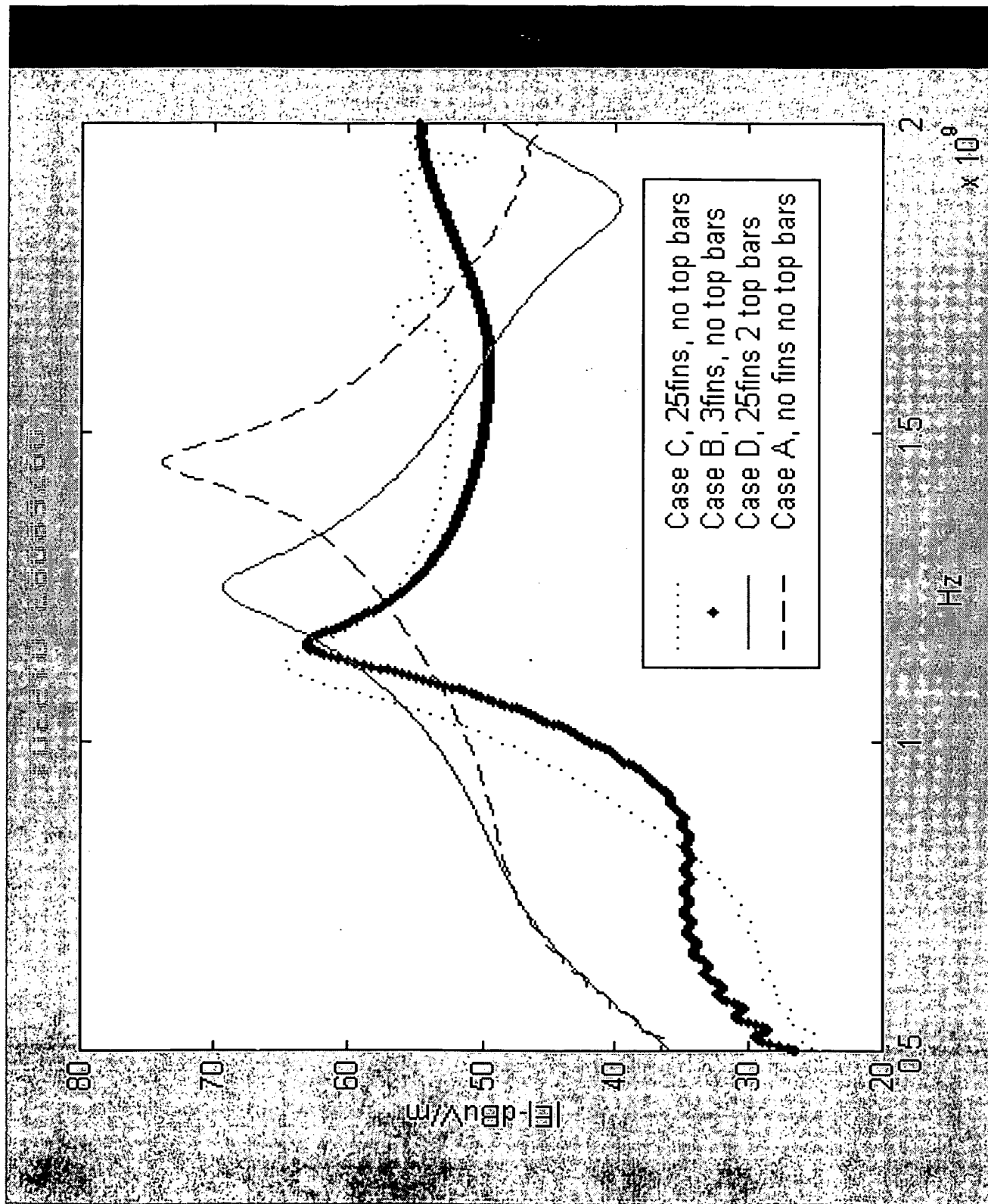


Fig. 3

FIG. 4

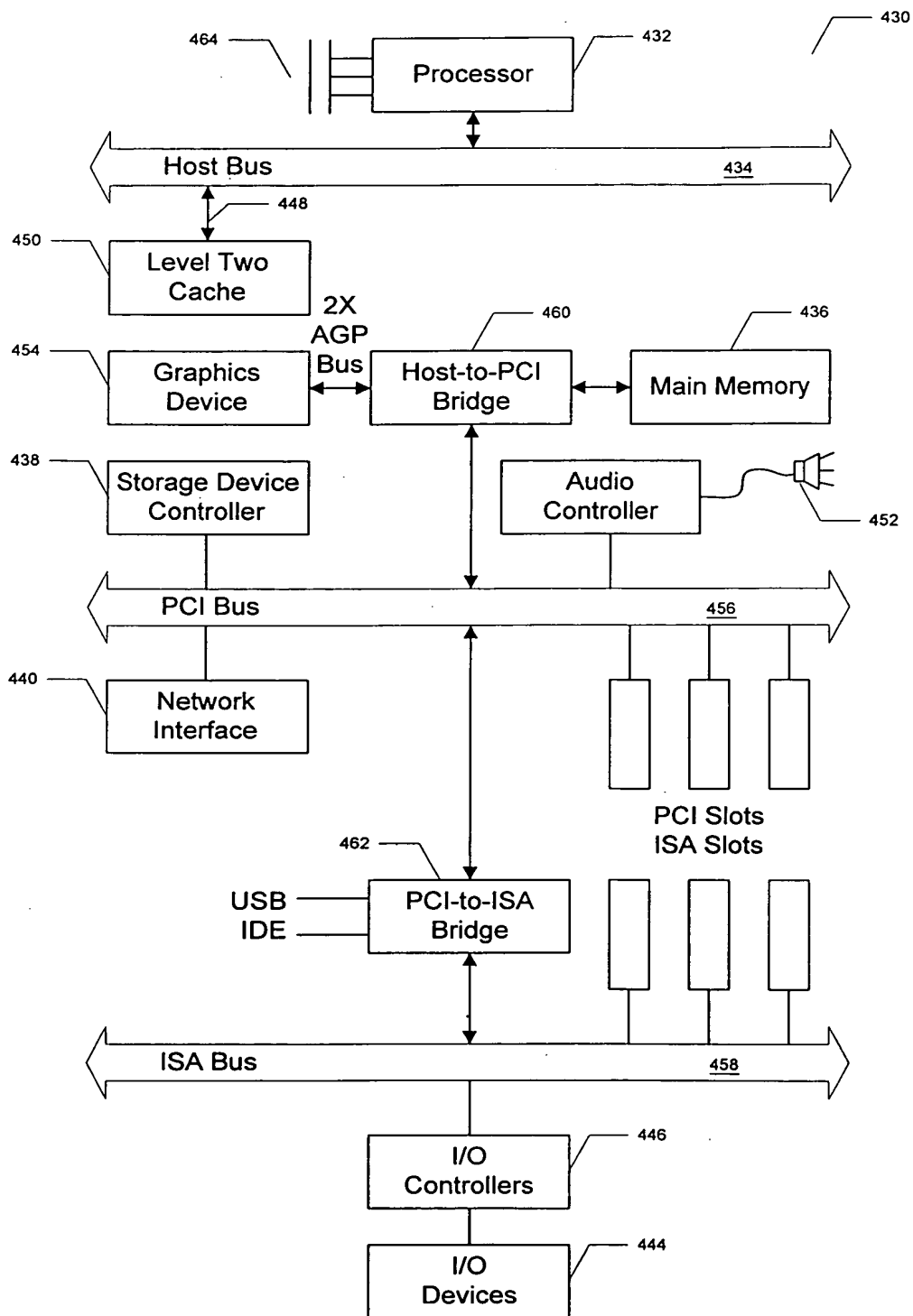


FIG. 4